

Title (en)
INTEGRATED SYSTEM FOR INTRAVASCULAR PLACEMENT OF A CATHETER

Title (de)
INTEGRIERTES SYSTEM ZUR INTRAVASKULÄREN PLATZIERUNG EINES KATHETERS

Title (fr)
SYSTÈME INTÉGRÉ POUR PLACEMENT INTRAVASCULAIRE D'UN CATHÉTER

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Abstract (en)
A catheter placement system for inserting a catheter into a vasculature of a patient, comprising: a console; a stylet removably positionable within a lumen of the catheter, the stylet including: a magnetic assembly for producing a magnetic field; an ECG sensor assembly for detecting ECG signals of a node of a heart of the patient; and a first connector in communication with the ECG sensor assembly; a tip location sensor positionable on a chest of a patient, the tip location sensor configured to detect a magnetic field of the magnetic assembly when the catheter is disposed within the vasculature of the patient; a second connector included with one of the tip location sensor and the console, the second connector for operably connecting to the first connector of the stylet to enable the ECG signals detected by the ECG sensor assembly to be communicated to at least one of the tip location sensor and the console; and a display for displaying information relating to at least one aspect of the ECG signal detected by the ECG sensor assembly.: wherein the ECG sensor assembly includes an electrically conductive core wire of the stylet, the core wire in operable communication with the first connector; wherein the first connector includes a pin contact in operable communication with the core wire, the pin contact disposed in a channel defined in the first connector; and wherein the second connector is included with the tip location sensor, and wherein the first and second connectors are physically connected via a perforation defined in a drape interposed between the stylet and the tip location sensor positioned on the chest of the patient, the physical connection of the first and connectors producing the perforation in the drape and confining the perforation so as to prevent a compromise of a sterile field of the patient.

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